

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2003/002744

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H02J 7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H02J, H01M, H02H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR : IPC7 as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 06-105457 A (SONY CO., LTD) 15 APR.1994	1, 4, 8, 12, 16 2,3,5,6,7,9-11,13-15
X Y	JP 06-105458 A (SONY CO., LTD) 15 APR. 1994	1, 4, 8, 12, 16 2,3,5,6,7,9-11,13-15
X Y	KR 316313 B (SONY CO., LTD) 19 FEB. 2002	1, 4, 8, 12, 16 2,3,5,6,7,9-11,13-15
A	JP 10-108381 A (International Business Machines Corporation) 24 APR. 1998	1-18
A	KR 1998-024172 A (International Business Machines Corporation) 6 JUL. 1998	1-18
A	KR 1998-028518 A (KIA MOTORS CO., LTD) 15 JUL. 1998	1-18

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
 - "A" document defining the general state of the art which is not considered to be of particular relevance
 - "E" earlier application or patent but published on or after the international filing date
 - "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
 - "G" document referring to an oral disclosure, use, exhibition or other means
 - "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

14 JANUARY 2004 (14.01.2004)

Date of mailing of the international search report

14 JANUARY 2004 (14.01.2004)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JEON, Yong Hai

Telephone No. 82-42-481-5657



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2003/002744

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 1994-105457 A	15 APR. 1994	EP 588615 B US 5530336 A EP 721247 B	10 JUN. 1998 25 JUN. 1996 01 AUG. 2001
JP 1994-105458 A	15 APR. 1994	EP 588615 B US 5530336 A EP 721247 B	10 JUN. 1998 25 JUN. 1996 01 AUG. 2001
KR 10-0316313 B	19 FEB. 2002	NONE	
JP 1998-108381 A	24 APR. 1998	US 5929602 US 5874823	27 JUL. 1999 23 FEB. 1999
KR 1998-024172 A	6 JUL. 1998	NONE	
KR 1998-028518 A	15 JUL. 1998	NONE	

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

PARK, Young-Woo
5F., Seil Building
#727-13, Yoksam-dong
Gangnam-gu
Seoul 135-921
Republic of Korea

Date of mailing (day/month/year) 26 January 2004 (26.01.2004)	
Applicant's or agent's file reference YW9011PC	IMPORTANT NOTIFICATION
International application No. PCT/KR2003/002744	International filing date (day/month/year) 13 December 2003 (13.12.2003)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 30 December 2002 (30.12.2002)
Applicant NESS CAP CO., LTD. et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
30 Dec 2002 (30.12.2002)	10-2002-0086299	KR	29 Dec 2003 (29.12.2003)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338-70-90	Authorized officer Carlos NARANJO Telephone No. (41-22) 338 8349
--	--